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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**Applicant:** Kenji Yamanishi, et al      **Docket:** 13931  
**Serial No.:** unassigned      **Dated:** September 29, 2000  
**Filed:** herewith

**For:** DEGREE OF OUTLIER CALCULATION DEVICE, AND PROBABILITY  
DENSITY ESTIMATION DEVICE AND FORGETFUL HISTOGRAM  
CALCULATION DEVICE FOR USE THEREIN

Assistant Commissioner for Patents  
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, it is requested that the following references, which are also listed on the attached Form PTO-1449, be made of record in the above-identified case.

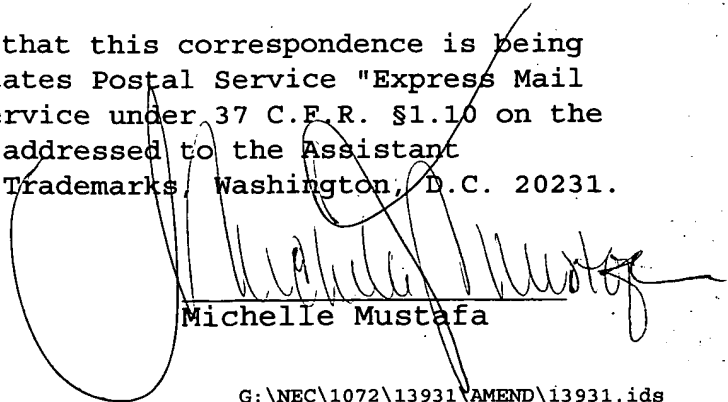
1. Publication "Combining Data Mining and Machine Learning for Effective Fraud Detection",

CERTIFICATE OF MAILING BY "EXPRESS MAIL"

"Express Mail" Mailing Label Number: EL-680-252-143.US  
Date of Deposit: September 29, 2000

I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above and is addressed to the Assistant Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Dated: September 29, 2000

  
Michelle Mustafa

Proceedings of AI Approaches to Fraud Detection and Risk Management, by Tom Fawcell and Foster Provost, pp. 14-19, 1997.

2. "Intrusion Detection with Neural Networks"

by J. Ryan, M. Lin and R. Miikkulainen, Proceedings of AI Approaches to Fraud Detection and Risk Management, pp. 72-77, 1997.

3. "Detecting Cellular Fraud Using Adaptive

Prototypes", by P. Burge and J. Shawe-Taylor, Proceedings of AI Approaches to Fraud Detection and Risk Management, pp. 9-13, 1997.

4. "Maximum Likelihood from Incomplete Data via

the EM Algorithm", by A.P. Dempster, N.M. Laird and D.B. Rubin, Journal of the Royal Statistical Society, B. 39(1), pp. 1-38, 1977.

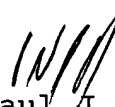
5. "Self-Organization of Neurons Described by

the Maximum-Entropy Principle" by I. Grabec, from Biological Cybernetics, Vol. 63, pp. 403-409, 1990.

Applicant is submitting copies of the above-cited references. The relevance of the above-identified references has been described in the specification.

Inasmuch as this Information Disclosure Statement is being submitted in accordance with the schedule set out in 37 C.F.R. § 1.97(b), no petition, certification or fee is required. Consideration of this Information Disclosure Statement is respectfully requested.

Respectfully submitted,

  
Paul J. Esatto, Jr.  
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